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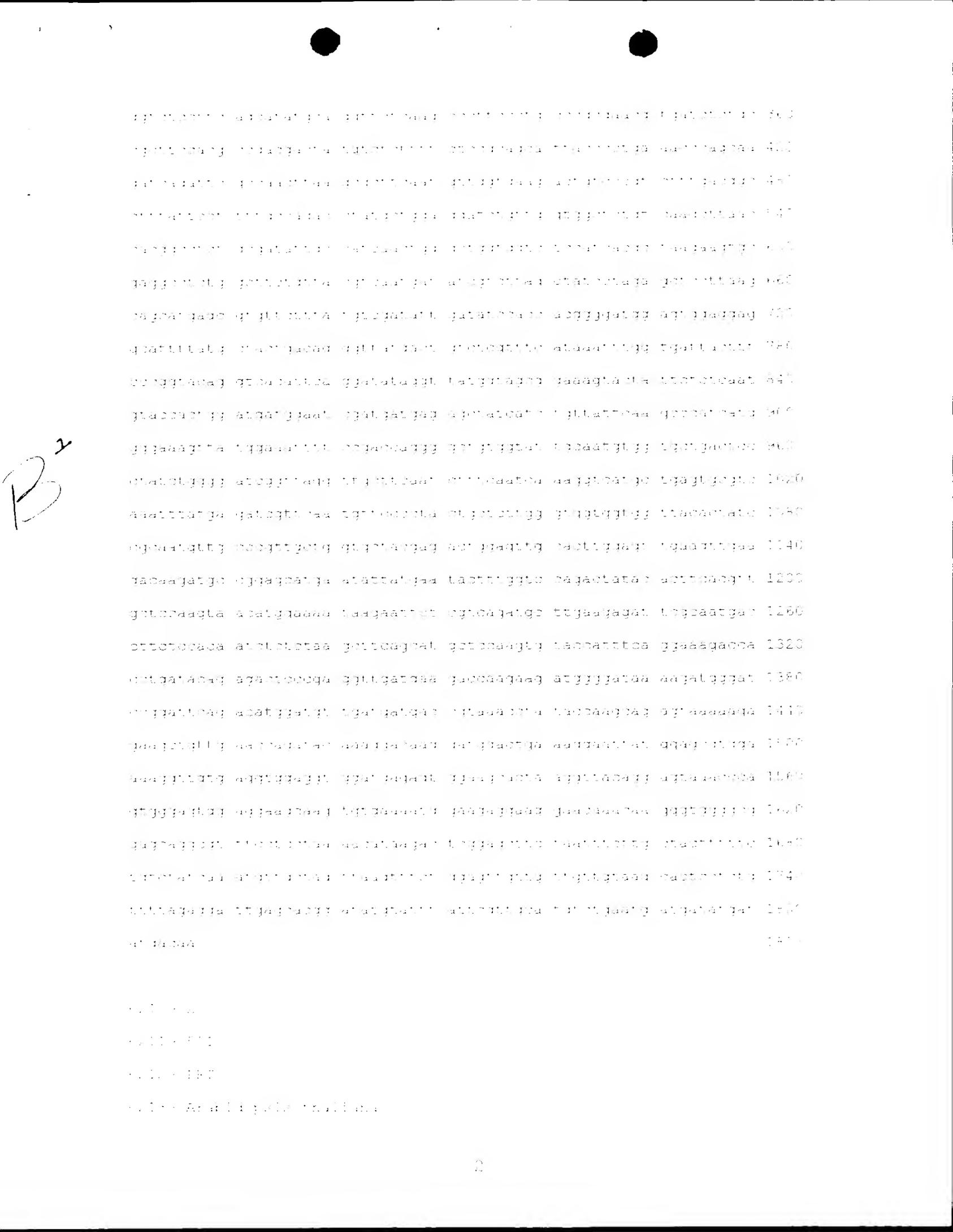

Met Asp Thr Gly Lys Asn Xaa Leu Arg Cys Gly Pro Arg Gly Val Lys
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Arg Lys Val Lys Tyr Pro Leu Tyr Asp Pro Glu Val Gly Asn Tyr Tyr Tyr
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Gly Gln Gly His Pro Met Lys Pro His Arg Ile Arg Met Thr His Asn
35 40 45

Leu Leu Asn His Ala Val Asn Asn Leu Phe His Met Val Val Lys Pro
50 55 60

Phe Gln Arg Pro Leu Arg Asp Leu Cys Arg Phe His Ala Asp Asp Tyr
65 70 75 80

Val Ser Pro Leu Arg Ser Ile Thr Pro His Thr Gln Gln Asp Gln Ile
85 90 95

Arg Gln Leu Lys Arg Phe Asn Val Gly Glu Asp Cys Pro Val Phe Asp
100 105 110

Gly Leu Tyr Ser Phe Tyr Gln Thr Tyr Ala Gly Gly Ser Val Gly Gly
115 120 125

Thr Val Lys Leu Asn His Gly Leu Cys Asp Ile Ala Leu Leu Asn Trp Ala
130 135 140

Gly Gly Leu His His Ala Lys Lys Tyr Val Ala Asn Gly His Tyr Tyr
145 150 155 160

Val Asn Asp Ile Val Leu Ala Ile Leu Val Ile Leu Lys Ile His Phe
165 170 175

Arg Val Leu Tyr Val Asp Ile Asp Leu His His Gly Asp Gly Val Glu
180 185 190

Gly Ala Pro Tyr Ala Thr Asp Arg Val Met Thr Val Ser Pro His Lys
195 200 205

Leu Gly Asp Tyr Leu Pro Gly Thr Gly His Ile Gln Asp Ile Gly Tyr
210 215 220

Gly Ser Gly Lys Tyr Tyr Ser Leu Asn Val Pro Leu Asp Asp Gly Ile
225 230 235 240

Asp Asp Gln Ser Tyr His Leu Leu Ile Lys Pro Ile Met Gly Lys Val
245 250 255

Met Glu Ile Phe Arg Pro Gly Ala Val Val Leu Gln Cys Gly Ala Asp
260 265 270

Ser Leu Ser Gly Asp Arg Leu Gly Cys His Asn Leu Ser Ile Lys Gly
275 280 285

His Ala Lys Cys Val Glu Phe Met Arg Ser His Asn Val Pro Met Leu
290 295 300

Ser Thr Lys Val Thr Gly Val Asn Pro Val Gly Val Glu Ile Ala Ser

465 470 475 480

Val Lys Met Leu Glu Ile Gly Thr Asn Lys Gly Gly Ala Glu Gln Asn

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Phe Pro Pro Lys Thr

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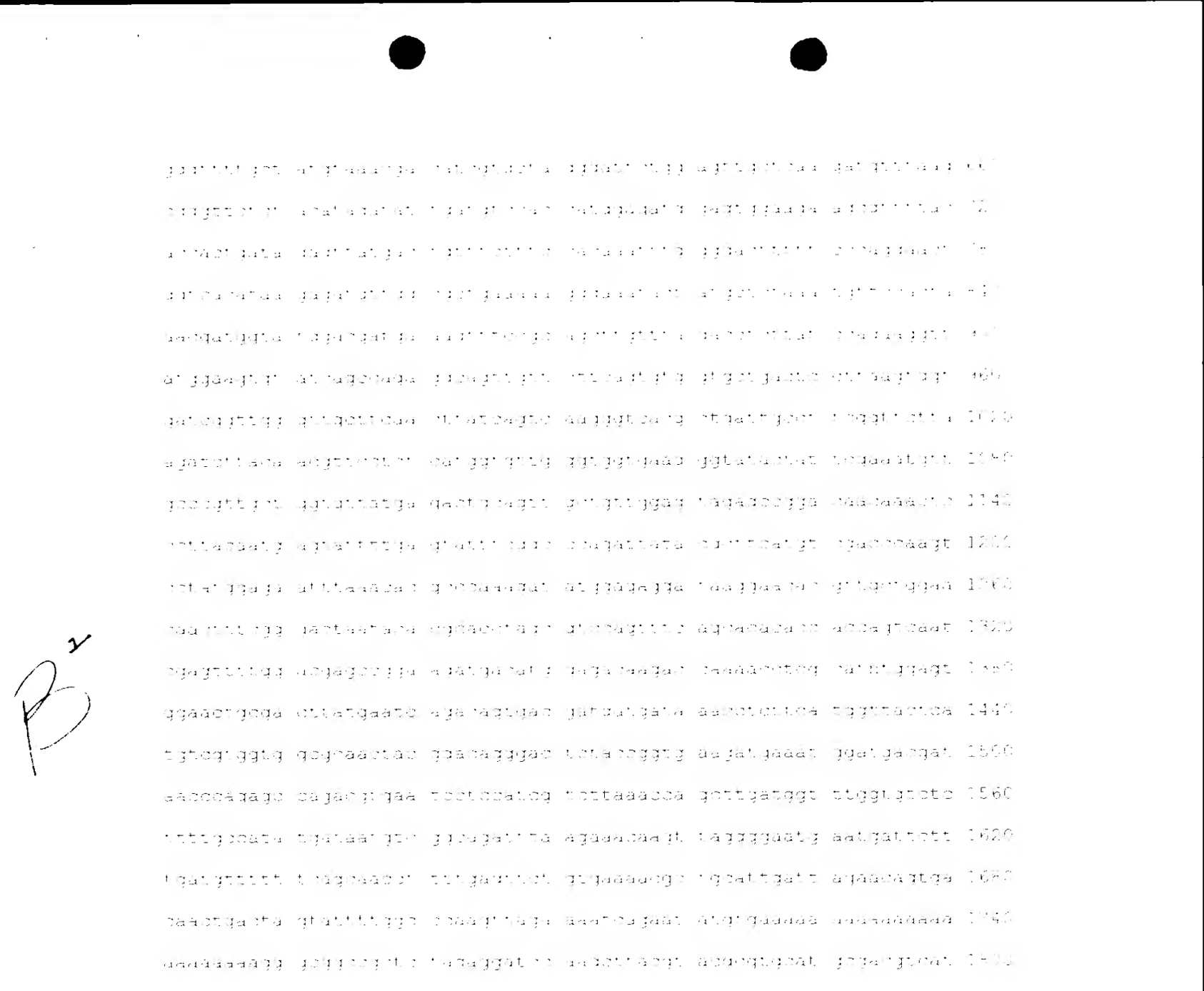

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Ser Phe His Lys Tyr Gly Asp Phe Phe Pro Gly Thr Gly His Ile Arg
Asp Val Gly Ala Glu Lys Gly Lys Tyr Tyr Ala Leu Asn Val Pro Leu
Asn Asp Gly Met Asp Asp Glu Ser Phe Arg Ser Leu Phe Arg Pro Leu
Ile Gln Lys Val Met Glu Val Tyr Gln Pro Val Ala Val Val Leu Gln
Tyr Gly Ala Asp Ser Leu Ser Gly Asp Arg Leu Gly Cys Phe Asn Leu
Ser Val Lys Gly His Ala Asp Tyr Leu Arg Met Tyr Arg
Val Ile Met Val Leu Gly Gly Gly Tyr Thr Ile Arg Asn Val

Ala Arg Lys Trp Tyr Tyr Glu Thr Ala Val Ala Val Gly Val Glu Pro
Asp Asn Lys Leu Pro Tyr Asn Glu Tyr Pro Glu Tyr His Gly Ile Asp
Tyr Thr Leu His Val Asp Pro Ser Pro Met Gln Asn Leu Asn Thr Pro
Lys Asp Met Glu Arg Ile Arg Asn Thr Ile Leu Glu Gln Leu Ser Gly
Leu Ile His Ala Pro Phe Val Gln Pro Gln His Thr Pro Pro Val Asn
Arg Val Leu Asp Glu Pro Glu Asp Asp Met Glu Thr Arg Pro Lys Pro
Arg Xaa Trp Ser Gly Thr Ala Thr Tyr Gln Ser Asp Ser Asp Asp Asp
Asp Lys Pro Leu His Gly Tyr Ser Lys Arg Gly Gly Ala Thr Thr Asp
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caagttttct ctgtcaatgg tggaggaatg aaaaaccaaa aggaagagtt tgtgtcattt 180

catgtaaagg ttgttgttta gaaattgatt ttgtttaatc tatcgactga gaaatcaaac 240

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ggaagtgctt acttgttgtg atttaaaaat ctcaaatatt agtcaaaagg ttatttaaaa 360

aaagaagagg aagaagaaga agaaagttct gttgggaatg ttgcaaagtg tgtgagtctg 420

ccaaaggctc aggctgtgag aatgaagcca gctgttgatg atgaaagagg tgagtctgat 480

ttgtgacggaa tggatgaaga tgattctgat ggtgaggatt ctgaggaaga agagccttac 540

cctaagaaag ctgtcattaa g taagaaagag ttaaatgaaa ctcaccctaa agccactgtg 600

ttaqctaaaa ggcgcgaaag tatcattaat ctttcagaaa tagatgaggaa gaagaaaggg 660

ggaaaggatg tcaaatcagt ccaaaagtcg gccagtcaag ttttcatgtg ttcattgcaa 720

aagactttca actcagtaaa tttaattgag ttgtcaaaga atgccaaaga gttgtgtaa 780

aagtgaaagg gttctcttat agaatttgtg attttatagg aattttgtat ttagtttaa 840

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<213> Arabidopsis thaliana

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Thr Pro Glu Glu Gly Ile Leu Ile His Val Ser Gln Ala Ser Leu Gly
20 25 30

Glu Cys Lys Asn Lys Lys Gly Glu Phe Val Pro Leu His Val Lys Val
35 40 45

Gly Asn Gln Asn Leu Val Leu Gly Thr Leu Ser Thr Glu Asn Ile Pro
50 55 60

Gln Leu Phe Cys Asp Leu Val Phe Asp Lys Glu Phe Glu Leu Ser His
65 70 75 80

Thr Trp Gly Lys Gly Ser Val Tyr Phe Val Gly Tyr Lys Thr Pro Asn
85 90 95

Ile Glu Pro Gln Gly Tyr Ser Glu Glu Glu Glu Glu Glu Glu Glu Glu
100 105 110

Val Pro Ala Gly Asn Ala Ala Lys Ala Val Ala Lys Pro Lys Ala Lys
115 120 125

Pro Ala Glu Val Lys Pro Ala Val Asp Asp Glu Glu Asp Glu Ser Asp
130 135 140

Ser Asn Gly Asn Asp Ile Asp Asp Ser Asp Gly Ile Asp Asp Ser Glu Glu
145 150 155 160

Glu Glu Pro Thr Pro Lys Lys Pro Ala Ser Ser Lys Lys Arg Ala Asn
165 170 175

Glu Thr Thr Pro Lys Ala Pro Val Ser Ala Lys Lys Ala Lys Val Ala
180 185 190

Val Thr Pro Gln Lys Thr Asp Glu Lys Lys Lys Gly Gly Lys Ala Ala
195 200 205

Asn Gln Ser Pro Lys Ser Ala Ser Gln Val Ser Cys Gly Ser Cys Lys
210 215 220

Lys Thr Phe Asn Ser Gly Asn Ala Leu Glu Ser His Asn Lys Ala Lys
225 230 235 240

His Ala Ala Ala Lys
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aaaatgtgtc aagtaaagct tttaggaaag aatctctaaa cagatgaatt cgtgatgagct 540

gatgatgaag attaaagtcg aagtggatta tacctcttca gaaaggaatg gatggttgat 600

gaagatgact ctgatgatga cgaggtggaa gtaattgtga gcatgaaaag aggaggagct 660

cttaaagaag ctgaagccaa cgaacaagaa aggccaaaat gaattgtatc caaaacctcg 720

gtctctggaa agaaggcaaa aatcagcaga gcacccagtt ctacttcttc gaagacagaa 780

gagaagaaga aaggaggaca cacccgccaa ccacacccag ctaagaaggg tggaaaagtct 840

cctgtgaatg ctaaccagag cccaaagtct ggaggtcaat catccggtgg tacaaacaaa 900

aagaagccat tcaactcagg caaacaattt ggtggttcca acaacaaggg ttctaacaag 960

ggcaagggaa agggtagagc ttaaggatgt ggatcaagga gagtttttgg gttttgtgagt 1020

agatgatgaa aacactttgga agtgtgggtt tggatttta tcttatttta ttagtataac 1080

ttgttatcgg atgagctatt ttgagtattt gcaatttcta ctttcctatg taatttcagta 1140

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Met Glu Phe Trp Gly Val Ala Val Thr Pro Lys Asn Ala Thr Lys Val

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Thr Pro Glu Glu Asp Ser Leu Val His Ile Ser Thr Ala Gln Leu Asp

20 25 30

Lys Thr Val Lys Ser Gly Glu Ser Val Val Leu Pro Val Thr Val Gly

Gly Ala Lys Leu Val Ile Gly Thr Leu Ser Gln Asp Lys Phe Pro Gln

Ile Ser Phe Asp Leu Val Phe Asp Lys Phe Phe Glu Leu Ser His Ser

Gly Thr Lys Ala Asn Val His Phe Ile Gly Tyr Lys Ser Pro Asn Ile

Glu Gln Asp Asp Pro Thr Ser Ser Asp Asp Glu Asp Val Pro Glu Ala

Val Pro Ala Pro Ala Pro Thr Ala Val Thr Ala Asn Gly Asn Ala Gly

Ala Ala Val Val Lys Ala Asp Thr Lys Pro Lys Ala Lys Pro Ala Glu

Val Lys Pro Ala Glu Glu Lys Pro Glu Ser Asp Glu Glu Asp Glu Ser

Asp Asp Glu Asp Glu Ser Glu Glu Asp Asp Asp Ser Glu Lys Gly Met

Asp Val Asp Glu Asp Asp Ser Asp Asp Asp Glu Glu Glu Asp Ser Glu

Asp His His Glu His Glu Thr Pro Lys Lys Pro Glu Pro His Asn Lys

Lys Arg Pro Asn Glu Ser Val Ser Lys Thr Pro Val Ser Gly Lys Lys
215 220

Ala Lys Pro Ala Ala Ala Pro Ala Ser Thr Pro Gln Lys Thr Gln Lys
225 230 235 240

Lys Lys Gly Gly His Thr Ala Thr Pro His Pro Ala Lys Lys Gly Gly
245 250 255

Lys Ser Pro Val Asn Ala Asn Gln Ser Pro Lys Ser Gly Gly Gln Ser
260 265 270

Ser Gly Gly Asn Asn Asn Lys Lys Pro Pro Asn Ser Gly Lys Gln Phe
275 280 285

Gly Gly Ser Asn Asn Lys Gly Ser Asn Lys Gly Lys Gly Lys Gly Arg
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Ala
305

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